

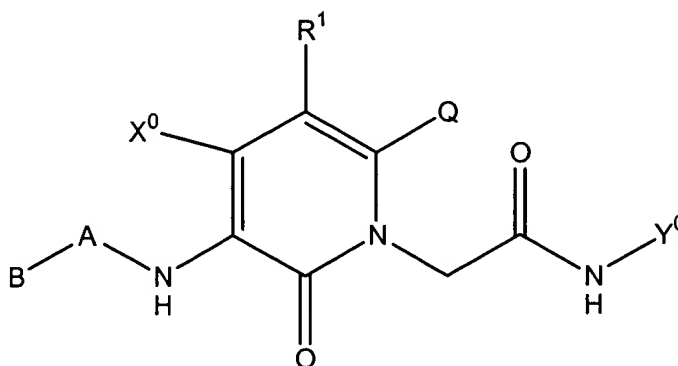
Express Mail No. EV 327053699 US

## AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and listings of claims in the application.

### Listing of Claims:

Claim 62 (previously presented): A compound having the formula:



or a pharmaceutically acceptable salt thereof, wherein:

B is selected from the group consisting of hydrido, C2-C8 alkyl, C3-C8 alkenyl, C3-C8 alkynyl, and C2-C8 haloalkyl, wherein each member of group B is optionally substituted at any carbon up to and including 6 atoms from the point of attachment of B to A with one or more of the group consisting of R<sup>32</sup>, R<sup>33</sup>, R<sup>34</sup>, R<sup>35</sup> and R<sup>36</sup>;

R<sup>32</sup>, R<sup>33</sup>, R<sup>34</sup>, R<sup>35</sup> and R<sup>36</sup> are independently selected from the group consisting of hydrido, acetamido, haloacetamido, amidino, guanidino, alkoxy, hydroxy, amino, alkoxyamino, alkylamino, alkylthio, amidosulfonyl, monoalkyl amidosulfonyl, dialkyl amidosulfonyl, alkyl, halo, haloalkyl, haloalkoxy, hydroxyalkyl, carboalkoxy, carboxy, carboxamido, cyano, and Q<sup>b</sup>;

Express Mail No. EV 327053699 US

A is selected from the group consisting of a single covalent bond and  $(\text{CH}(\text{R}^{15}))_{\text{pa}}-(\text{W}^7)_{\text{rr}}$  wherein rr is an integer selected from 0 through 1, pa is an integer selected from 0 through 3, and  $\text{W}^7$  is  $\text{N}(\text{R}^7)$ ;

$\text{R}^7$  is selected from the group consisting of hydrido and alkyl;

$\text{R}^{15}$  is selected from the group consisting of hydrido, halo, alkyl, and haloalkyl;

$\text{R}^1$  and  $\text{X}^0$  are independently selected from the group consisting of hydrido, hydroxy, hydroxyamino, amidino, amino, cyano, hydroxyalkyl, alkoxy, alkyl, alkylamino, aminoalkyl, alkylthio, alkoxyamino, haloalkyl, haloalkoxy, and halo;

Q is selected from the group consisting of aryl and heteroaryl, wherein (a) a ring carbon in a first alpha position relative to the ring carbon at the point of attachment is optionally substituted by  $\text{R}^9$ , (b) a ring carbon in a second alpha position relative to the ring carbon at the point of attachment is optionally substituted by  $\text{R}^{13}$ , (c) a ring carbon, in a first beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by  $\text{R}^9$ , is optionally substituted by  $\text{R}^{10}$ , (d) a ring carbon, in a second beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by  $\text{R}^{13}$ , is optionally substituted by  $\text{R}^{12}$ , and (e) a ring carbon, if present, in the gamma position relative to the ring carbon at the point of attachment and in an alpha position relative to each of the ring atoms optionally substituted by  $\text{R}^{10}$  and  $\text{R}^{12}$ , respectively, is optionally substituted by  $\text{R}^{11}$ ;

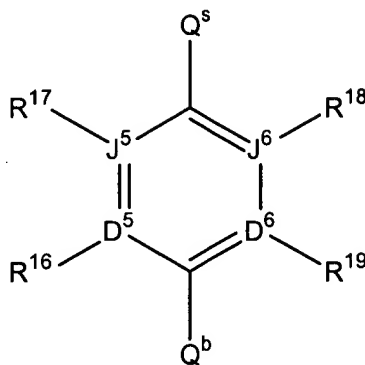
$\text{R}^9$ ,  $\text{R}^{11}$  and  $\text{R}^{13}$  are independently selected from the group consisting of hydrido, hydroxy, amino, amidino, guanidino, alkylamino, alkylthio, alkoxy, alkylsulfinyl, alkylsulfonyl, amidosulfonyl, monoalkyl amidosulfonyl, alkyl, halo, haloalkyl, haloalkoxy, hydroxyalkyl, carboxy, carboxamido, and cyano;

$\text{R}^{10}$  and  $\text{R}^{12}$  are independently selected from the group consisting of hydrido, acetamido, haloacetamido, amidino, guanidino, alkyl, alkoxy, alkoxyamino, aminoalkyl, hydroxy, amino, alkylamino, alkylsulfonamido, amidosulfonyl, monoalkyl amidosulfonyl,

Express Mail No. EV 327053699 US

dialkyl amidosulfonyl, hydroxyalkyl, halo, haloalkyl, carboalkoxy, carboxy, carboxyalkyl, carboxamido, and cyano;

$Y^0$  is formula (IV):



(IV)

wherein  $D^5$ ,  $D^6$ ,  $J^5$ , and  $J^6$  are independently selected from the group consisting of C, N, O, S and a covalent bond with the provisos that no more than one is a covalent bond, no more than one of  $D^5$ ,  $D^6$ ,  $J^5$  and  $J^6$  is O, no more than one of  $D^5$ ,  $D^6$ ,  $J^5$  and  $J^6$  is S, one of  $D^5$ ,  $D^6$ ,  $J^5$ , and  $J^6$  must be a covalent bond when two of  $D^5$ ,  $D^6$ ,  $J^5$ , and  $J^6$  are O and S, and no more than four of  $D^5$ ,  $D^6$ ,  $J^5$ , and  $J^6$  are N, with the provisos that  $R^{16}$ ,  $R^{17}$ ,  $R^{18}$ , and  $R^{19}$  are each independently selected to maintain the tetravalent nature of carbon, the trivalent nature of nitrogen, the divalent nature of sulfur, and the divalent nature of oxygen;

$R^{17}$  and  $R^{18}$  are independently selected from the group consisting of hydrido, amidino, guanidino, carboxy, haloalkylthio, alkoxy, hydroxy, amino, alkylamino, alkylthio, alkylsulfinyl, alkylsulfonyl, alkanoyl, haloalkanoyl, alkyl, halo, haloalkyl, haloalkoxy, hydroxyalkyl, aminoalkyl, and cyano;

$R^{16}$  and  $R^{19}$  are independently selected from the group consisting of hydrido, amidino, guanidino, carboxy, haloalkylthio, alkoxy, hydroxy, amino, alkylamino,

Express Mail No. EV 327053699 US

alkylthio, alkylsulfinyl, alkylsulfonyl, alkanoyl, haloalkanoyl, alkyl, halo, haloalkyl, haloalkoxy, hydroxyalkyl, aminoalkyl, cyano, and  $Q^b$  with the proviso that no more than one of  $R^{16}$  and  $R^{19}$  is  $Q^b$  at the same time and that  $Q^b$  is  $Q^{be}$ ;

$Q^b$  is selected from the group consisting of  $NR^{20}R^{21}$ ,  $Q^{be}$  wherein  $Q^{be}$  is hydrido,  $N(R^{26})C(NR^{25})N(R^{23})(R^{24})$ , and  $C(NR^{25})NR^{23}R^{24}$ ;

$R^{20}$ ,  $R^{21}$ ,  $R^{23}$ ,  $R^{24}$ ,  $R^{25}$  and  $R^{26}$  are independently selected from the group consisting of hydrido and alkyl; and

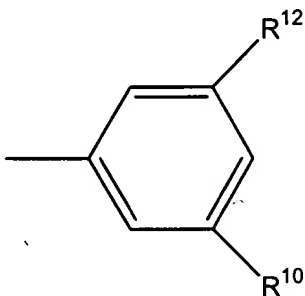
$Q^s$  is  $CH_2$ .

Claim 63 (previously presented): The compound of claim 62 wherein  $Y^0$  is amidinoaralkyl or amidinoheteroaralkyl.

Claim 64 (previously presented): The compound of claim 63 wherein A is a single covalent bond,  $X^0$  is hydrido and  $R^1$  is hydrido or halo.

Claim 65 (previously presented): The compound of claim 64 wherein B is C2-C8 alkyl.

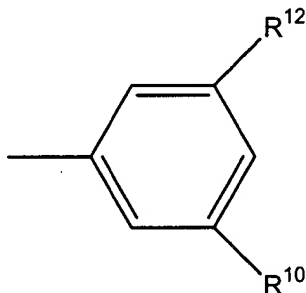
Claim 66 (previously presented): The compound of claim 65 wherein Q is



Express Mail No. EV 327053699 US

and  $R^{10}$  and  $R^{12}$  are independently selected from the group consisting of hydrido, acetamido, haloacetamido, amidino, guanidino, alkyl, alkoxy, alkoxyamino, aminoalkyl, hydroxy, amino, alkylamino, alkylsulfonamido, amidosulfonyl, monoalkyl amidosulfonyl, dialkyl amidosulfonyl, hydroxyalkyl, halo, haloalkyl, carboalkoxy, carboxy, carboxyalkyl, carboxamido, and cyano.

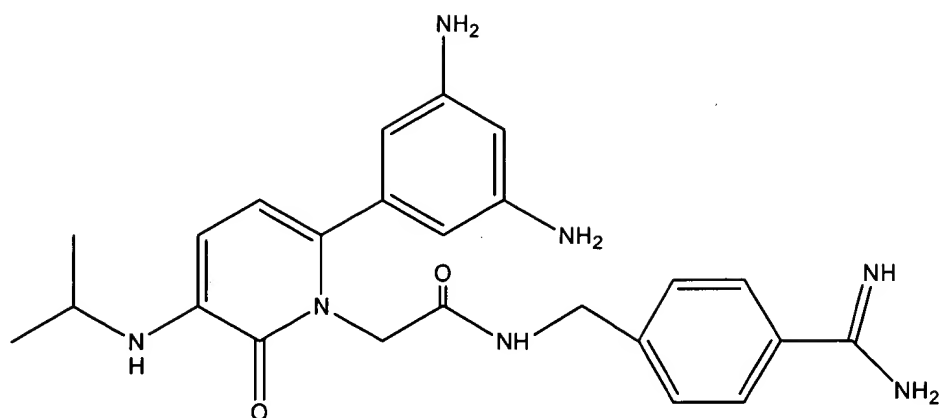
Claim 67 (previously presented): The compound of claim 63 wherein Q is



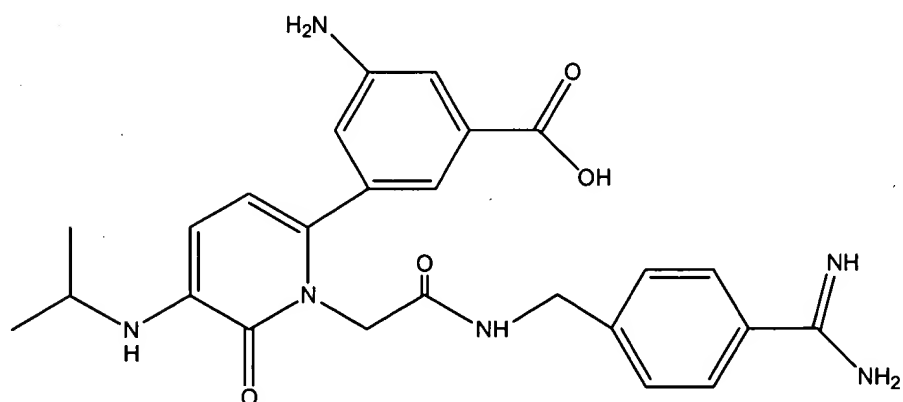
and  $R^{10}$  and  $R^{12}$  are independently selected from the group consisting of hydrido, acetamido, haloacetamido, amidino, guanidino, alkyl, alkoxy, alkoxyamino, aminoalkyl, hydroxy, amino, alkylamino, alkylsulfonamido, amidosulfonyl, monoalkyl amidosulfonyl, dialkyl amidosulfonyl, hydroxyalkyl, halo, haloalkyl, carboalkoxy, carboxy, carboxyalkyl, carboxamido, and cyano.

Claim 68 (previously presented): The compound of claim 62 wherein the compound is

Express Mail No. EV 327053699 US



Claim 69 (previously presented): The compound of claim 62 wherein the compound is



Claim 70 (currently amended): The compound of claim 62 wherein Q is 3-amidocarbonyl-5-aminophenyl 3-carboxamido-5-aminophenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro and X<sup>0</sup> is hydrido.

Express Mail No. EV 327053699 US

Claim 71 (currently amended): The compound of claim 62 wherein Q is ~~3-amino-5-(N-benzylamidocarbonyl)phenyl~~ 3-amino-5-(N-benzylcarboxamido)phenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro and X<sup>0</sup> is hydrido.

Claim 72 (currently amended): The compound of claim 62 wherein Q is ~~3-amino-5-(N-(2-chlorobenzyl)amidocarbonyl)phenyl~~ 3-amino-5-(N-(2-chlorobenzyl)carboxamido)phenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro and X<sup>0</sup> is hydrido.

Claim 73 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-(N-(2-chlorobenzyl)amidosulfonyl)phenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro and X<sup>0</sup> is hydrido.

Claim 74 (currently amended): The compound of claim 62 wherein Q is ~~3-amino-5-(N-(trifluoromethylbenzyl)amidocarbonyl)phenyl~~ 3-amino-5-(N-(trifluoromethylbenzyl)carboxamido)phenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro and X<sup>0</sup> is hydrido.

Claim 75 (previously presented): The compound of claim 62 wherein Q is 3,5-diaminophenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro and X<sup>0</sup> is hydrido.

Claim 76 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxyphenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro and X<sup>0</sup> is hydrido.

Express Mail No. EV 327053699 US

Claim 77 (currently amended): The compound of claim 62 wherein Q is ~~3-amidocarbonyl-5-aminophenyl~~ 3-carboxamido-5-aminophenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is hydrido and X<sup>0</sup> is hydrido.

Claim 78 (currently amended): The compound of claim 62 wherein Q is ~~3-amino-5-(N-benzylamidocarbonyl)phenyl~~ 3-amino-5-(N-benzylcarboxamido)phenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is hydrido and X<sup>0</sup> is hydrido.

Claim 79 (currently amended): The compound of claim 62 wherein Q is ~~3-amino-5-(N-(2-chlorobenzyl)amidocarbonyl)phenyl~~ 3-amino-5-(N-(2-chlorobenzyl)carboxamido)phenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is hydrido and X<sup>0</sup> is hydrido.

Claim 80 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-(N-(2-chlorobenzyl)amidosulfonyl)phenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is hydrido and X<sup>0</sup> is hydrido.

Claim 81 (currently amended): The compound of claim 62 wherein Q is ~~3-amino-5-(N-(trifluoromethylbenzyl)amidocarbonyl)phenyl~~ 3-amino-5-(N-(trifluoromethylbenzyl)carboxamido)phenyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is hydrido and X<sup>0</sup> is hydrido.

Claim 82 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is (S)-2-butyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is hydrido and X<sup>0</sup> is hydrido.



Express Mail No. EV 327053699 US

Claim 83 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is ethyl, A is a single bond,  $Y^0$  is 4-amidinobenzyl,  $R^1$  is hydrido and  $X^0$  is hydrido.

Claim 84 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is 2-propenyl, A is a single bond,  $Y^0$  is 4-amidinobenzyl,  $R^1$  is hydrido and  $X^0$  is hydrido.

Claim 85 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is isopropyl, A is a single bond,  $Y^0$  is 4-amidinobenzyl,  $R^1$  is hydrido and  $X^0$  is hydrido.

Claim 86 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is 2-butyl, A is a single bond,  $Y^0$  is 4-amidinobenzyl,  $R^1$  is hydrido and  $X^0$  is hydrido.

Claim 87 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is (R)-2-butyl, A is a single bond,  $Y^0$  is 4-amidinobenzyl,  $R^1$  is hydrido and  $X^0$  is hydrido.

Claim 88 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is 3-pentyl, A is a single bond,  $Y^0$  is 4-amidinobenzyl,  $R^1$  is hydrido and  $X^0$  is hydrido.

Claim 89 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is tert-butyl, A is a single bond,  $Y^0$  is 4-amidinobenzyl,  $R^1$  is hydrido and  $X^0$  is hydrido.

Express Mail No. EV 327053699 US

Claim 90 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is butyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is hydrido and X<sup>0</sup> is hydrido.

Claim 91 (currently amended): The compound of claim 62 wherein Q is ~~3-amidocarbonyl-5-amino-2-thienyl~~ 3-carboxamido-5-amino-2-thienyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro or hydrido and X<sup>0</sup> is hydrido.

Claim 92 (currently amended): The compound of claim 62 wherein Q is ~~3-amino-5-(N-benzylamidocarbonyl)-2-thienyl~~ 3-amino-5-(N-benzylcarboxamido)-2-thienyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro or hydrido and X<sup>0</sup> is hydrido.

Claim 93 (currently amended): The compound of claim 62 wherein Q is ~~3-amino-5-(N-(2-chlorobenzyl)amidocarbonyl)-2-thienyl~~ 3-amino-5-(N-(2-chlorobenzyl)carboxamido)-2-thienyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro or hydrido and X<sup>0</sup> is hydrido.

Claim 94 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-(N-(2-chlorobenzyl)amidosulfonyl)-2-thienyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro or hydrido and X<sup>0</sup> is hydrido.

Claim 95 (currently amended): The compound of claim 62 wherein Q is ~~3-amino-5-(N-(trifluoromethylbenzyl)amidocarbonyl)-2-thienyl~~ 3-amino-5-(N-(trifluoromethylbenzyl)carboxamido)-2-thienyl, B is 2-propyl, A is a single bond, Y<sup>0</sup> is 4-amidinobenzyl, R<sup>1</sup> is chloro or hydrido and X<sup>0</sup> is hydrido.

Express Mail No. EV 327053699 US

Claim 96 (previously presented): The compound of claim 62 wherein Q is 3,5-diamino-2-thienyl, B is 2-propyl, A is a single bond,  $Y^0$  is 4-amidinobenzyl,  $R^1$  is chloro or hydrido and  $X^0$  is hydrido.

Claim 97 (previously presented): The compound of claim 62 wherein Q is 3-amino-5-carboxy-2-thienyl, B is 2-propyl, A is a single bond,  $Y^0$  is 4-amidinobenzyl,  $R^1$  is chloro or hydrido and  $X^0$  is hydrido.